DESCRIPTION

~~Fully Dry, Central Tube-Type Air Blown Micro Optical Fiber~~

All-dry Central Tube Air Blown Micro Optical Cable

TECHNICAL FIELD

[0001]The invention relates to an all-dry central tube air blown micro optical cable which can be used for air blown installation in a micro plastic duct.

BACKGROUND

[0002] With the rapid development of the fiber to the home (FTTH), in metropolitan area network and access network, the micro optical cable has been greatly used by air blown installation. Due to the limitations of duct resources, long distance of air blown and convenience for use are the requirements for all cable products. Existing air blown micro optical cable has 2 kinds of structures: stranded and central tubed. The stranded micro cable has a larger diameter which is generally greater than about 5 mm, and the cable is merely blown in a 10/8 mm duct. Central tube micro cable has smaller diameter, approximately 4.0 mm, and the cable is merely air blown in a 7/5.5 mm duct. In the FTTH constructions overseas, almost all the air blown tubes used in the home are 5/3.5 tubes. Furthermore, the construction environment is complex. Because traditional central tube air blown micro cable has a larger diameter and the contact area between the surface of the optical cable and the duct is large, the friction is great, the distance of air blown is short. Also, because gel is contained in the sheath, when the optical fiber is spliced, cleaning the gel takes too much time and the environmental pollution occurs.

SUMMARY

[0003] The technical problem to be resolved by the present invention is to provide a all-dry central tube air blown micro optical cable. The cable has some advantages such as good laying performance, long air blown distance, simple structure and